| Competency | Essex Graduate | Skill | Skill Level | Evidence |
|---|---|---|---|---|
| Professional | Literacy, Communication, Language Skills | Express information effectively to technical and non-technical audiences | Expert | Module 2 |
| | | Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts) | Proficient | Module 1 and 2 |
| | Commercial Awareness | Keep current with tools of the industry, as well as emerging technology | Trained | Final project |
| | | Seek opportunites to improve and share knowledge of tools and technoology that may improve productivity | Trained | Module 2 |
| | | Participate in scientific and professional organisations | Aware | Student member BCS |
| | | Emphasise quality, customer satisfaction and fair application of policies. | Aware | Module 2 |
| | | Demonstrate familiriaty with codes of conduct for the Computing field. | Trained | Module 1 and 2 |
| | Subject understanding, research, critical thinking, time management | Critically analyse complex ideas in concepts in the field of Computer Science | Aware | **Module 1 Python OOD project** |
| | | Recognise inconsistencies and gaps in information, and search for additional information when needed… | Trained | **Module 1 and 2** |
| | | Explore complex real-world problems in a Computing context | Aware | **Module 1 and 2** |
| Legal and Ethical | Ethical Awareness | Comply with the letter and spirit of applicable laws | Proficient | Module 2 |
| | | Maintain privacy and confidentiality of company, co-worker and customer information | Expert | Module 2 |
| (?: Teamwork) | Cultural Awareness | Act in the best interest of the community at large - Social (Community) Responsibility | Proficient | Module 2 |
| | Teamwork, Leadership and Resilience, Time Management | Collaborate effectively in diverse teams to achieve team goals | Proficient | Module 2 |
| | | Meeting team objectives using teamwork skills | Proficient | Module 2 |
| | | Demonstrate skills in leadership and team building | Proficient | Module 2 |

| | | | | |
|---|---|---|---|---|
| **Social (inc** | Management | Give and receive constructive feedback | Proficient | Module 2 |
| | **Creativity, Entrepreneurial, Problem solving, Initiative, Decision** | Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment) | Aware | Module 2 |
| | | Able to make a decision on a complex matter/scenario using multiple sources of information | Trained | Module 2 |
| **Technical (Data Science)** | **IT and Digital, Numeracy** | *Technical skills relevant to your degree programme:* | | |
| | | SQL for database querying | Trained | Module 1 |
| | | Python Programming | Trained | Module 1 |
| | | Kali Linux | Trained | Module 2 |
| | | Python | Trained | Modul1 |
| | | OWAPS ZAP | Trained | Module 2 |
| | | Scripting Language (Python) | Trained | Module 1 |
| | | Statistical Language (R) | Aware | |
| | | Gits - repository development and maintenance | Trained | Module 1 and 2 |
| | | Use of conferenceing technologies and Moodle (VLE) | Proficient | Module 2 |
| | | Use of Word Processing tools and Spreadsheets | Trained | Module 1 and 2 |
| | | Effective use of e-library resources | Proficient | Module 1 and 2 |
| **Subject Application** | **Global Citizen, Teamwork, Leadership, Emotional** | Take into account other people's perspectives | Expert | **Module 2** |
| | | Work constructively with differences in viewpoints | Expert | **Module 2** |
| | | Actively participate in a range of community activities as an informed citizen | Expert | **Module 2** |
| | **Decision Making, Initiative, Emotional Intelligence, Ethical Awareness** | Develop, articulate and clarify your personal values and ethics | Proficient | **Module 2** |

This is by no means a comprehensive list of Professional skills required for your programme.  It is meant to be used as a guide for your SWOT analysi

As you progress through the course, you will discover other skills you need to develop or currently have. These can be described in further detail in your SWOT a

As this is required in various modules, you may end up with different versions of this Matrix.  You can collate them in your Learning Loop as part of your final PDI

**Adapted from BCS guidelines and Essex graduate**

## Skill Level Key

**Aware**       General understanding and basic knowledge

**Trained**     Able to apply knowledge, able to work independently under certain conditions

**Proficient**  Broad and in-depth knowledge, able to work independently with very little supervision

**Expert**      Seen as a subject matter expert, able to lead and train others.